

WHAT IS CLAIMED IS:

- 09787192.031504
TOSTED 2674960
1. An isolated antibody which selectively binds a
5 mammalian polypeptide, said polypeptide characterized
by:
 - a) binds with selectively to DCGM4 monoclonal
antibody;
 - b) natural form of said polypeptide has a molecular
10 weight by SDS PAGE of ~40 kD; and
 - c) expressed on the cell surface of Langerhans
cells.
 - 15 2. The antibody of claim 1 which is a monoclonal
antibody.
 3. A hybridoma that produces a monoclonal antibody of
claim 2.
 - 20 4. The hybridoma of claim 3, which has ATCC Accession
No. HB-12576.
 5. A method for analyzing a cell population, comprising
detecting or measuring the presence of Langerin with said
25 antibody of claim 1.
 6. A substantially pure mammalian protein characterized
by:
 - a) a molecular weight by SDS PAGE of approximately
30 40 kDa with natural glycosylation; and
 - b) binds selectively to said antibody of claim 1.
 7. A protein having an amino acid sequence shown in SEQ
ID NO: 2.
 - 35 8. A protein having an amino acid sequence shown in SEQ
ID NO: 11.
 9. A fragment of the protein of claim 7, which:

- a) expresses an immunological epitope of said Langerin; or
- b) modulates an immune response.

5 10. A nucleic acid sequence which encodes a protein shown in SEQ ID NO: 2.

Sub B1
10 11. The nucleic acid sequence of claim 10 comprising the coding region shown in SEQ ID NO: 1.

12. A nucleic acid sequence which encodes a protein shown in SEQ ID NO: 11.

15 13. The nucleic acid sequence of claim 12 comprising the coding region shown in SEQ ID NO: 10.

Sub B2
14. A nucleic acid sequence shown in SEQ ID NO: 3 or a fragment thereof.

20 15. A nucleic acid sequence comprising any one of SEQ ID NOS: 4-9.

Add B3

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